

Oil and Gas Field Machinery and Equipment Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)				
333132, Oil and gas field machinery and equipment manufacturing.....	467	536	27 420	1 298 580	16 548	33 971	643 319	2 699 205	2 847 348	5 467 847	176 156
2002..	N	N	27 666	1 282 986	17 122	34 666	624 967	3 074 395	3 399 524	6 384 978	214 755
2001..	N	N	26 876	1 151 121	16 413	33 459	574 322	2 854 248	2 775 823	5 579 883	157 679
2000..	N	N	27 479	1 094 605	17 235	33 350	546 417	2 606 485	2 827 223	5 688 636	162 701
1999..	N	N	29 209	1 167 612	18 877	37 788	643 214	3 414 400	2 754 587	6 001 248	198 544
1998..	N	N	28 241	1 111 949	18 813	36 416	616 984	3 567 926	2 660 545	5 986 881	229 140
1997..	494	557									

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333132, Oil and gas field machinery and equipment manufacturing												
United States	1	536	216	27 420	1 298 580	16 548	33 971	643 319	2 699 205	2 847 348	5 467 847	'176 156
California	2	27	8	721	30 967	320	703	11 711	49 921	47 847	96 177	'2 831
Indiana	4	4	3	124	4 996	74	156	2 493	11 456	6 404	17 909	'616
Oklahoma	-	67	26	3 368	134 455	2 204	4 100	72 284	265 663	458 952	742 141	'20 345
Pennsylvania	3	9	4	248	11 716	162	239	5 772	30 629	24 737	56 707	'1 364
Texas	1	281	129	18 710	929 173	10 831	22 224	439 042	1 987 901	1 875 985	3 781 362	'125 477
Utah	9	4	1	111	4 778	74	142	2 501	11 734	8 587	20 321	'379
Wyoming	3	9	3	192	8 953	137	268	5 420	22 904	15 294	37 768	'1 175

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333132, Oil and gas field machinery and equipment manufacturing	
Companies ¹	number.. 467
All establishments ²	number.. 536
Establishments with 1 to 19 employees	number.. 320
Establishments with 20 to 99 employees	number.. 145
Establishments with 100 employees or more	number.. 71
All employees ³	number.. 27 420
Total compensation	\$1,000.. 1 603 895
Annual payroll	\$1,000.. 1 298 580
Total fringe benefits	\$1,000.. 305 315
Production workers, average for year	number.. 16 548
Production workers on March 12	number.. 16 251
Production workers on May 12	number.. 16 852
Production workers on August 12	number.. 16 493
Production workers on November 12	number.. 16 529
Production worker hours	1,000.. 33 971
Production worker wages	\$1,000.. 643 319
Total cost of materials	\$1,000.. 2 847 348
Materials, parts, containers, packaging, etc., used	\$1,000.. 2 407 787
Resales	\$1,000.. 230 751
Purchased fuels	\$1,000.. 10 475
Purchased electricity	\$1,000.. 44 216
Contract work	\$1,000.. 154 119
Quantity of electricity purchased for heat and power	1,000 kWh.. 776 379
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Total value of shipments	\$1,000.. 5 467 847
Primary products value of shipments	\$1,000.. 4 755 351
Secondary products value of shipments	\$1,000.. 171 114
Total miscellaneous receipts	\$1,000.. 541 382
Value of resales	\$1,000.. 317 417
Contract receipts	\$1,000.. 18 786
Other miscellaneous receipts	\$1,000.. 205 179
Primary products specialization ratio	percent.. 97
Value of primary products shipments made in all industries	\$1,000.. 4 874 519
Value of primary products shipments made in this industry	\$1,000.. 4 755 351
Value of primary products shipments made in other industries	\$1,000.. 119 168
Coverage ratio	percent.. 98
Value added	\$1,000.. 2 699 205
Total inventories, beginning of year	\$1,000.. 1 685 278
Finished goods inventories	\$1,000.. 969 281
Work-in-process inventories	\$1,000.. 300 934
Materials and supplies inventories	\$1,000.. 415 063
Total inventories, end of year	\$1,000.. 1 699 780
Finished goods inventories	\$1,000.. 1 003 195
Work-in-process inventories	\$1,000.. 345 726
Materials and supplies inventories	\$1,000.. 350 859
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '1 891 099
Total capital expenditures (new and used)	\$1,000.. '176 156
Buildings and other structures (new and used)	\$1,000.. '32 457
Machinery and equipment (new and used)	\$1,000.. '143 699
Automobiles, trucks, etc., for highway use	\$1,000.. '5 917
Computers and peripheral data processing equipment	\$1,000.. '22 434
All other expenditures for machinery and equipment	\$1,000.. '115 348
Total retirements	\$1,000.. '90 846
Gross value of depreciable assets at end of year	\$1,000.. '1 976 409
Depreciation charges during year	\$1,000.. '125 405
Total rental payments	\$1,000.. 57 485
Buildings and other structures	\$1,000.. 29 622
Machinery and equipment	\$1,000.. 27 863
Total other expenses ⁴	\$1,000.. 439 327
Response coverage ratio ⁵	percent.. 80
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 47 767
Communications services ⁴	\$1,000.. 11 560
Legal services ⁴	\$1,000.. 11 479
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 3 459
Advertising and promotional services ⁴	\$1,000.. 7 530
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 25 063
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 2 984
Management consulting and administrative services ⁴	\$1,000.. 14 830
Taxes and license fees ⁴	\$1,000.. 32 938
All other expenses ⁴	\$1,000.. 281 717

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333132, Oil and gas field machinery and equipment manufacturing											
All establishments	1	536	27 420	1 298 580	16 548	33 971	643 319	2 699 205	2 847 348	5 467 847	'176 156
Establishments with—											
1 to 4 employees	9	164	354	14 865	247	454	7 845	35 237	26 068	61 444	'1 199
5 to 9 employees	7	82	544	23 867	384	774	13 052	54 752	41 514	96 653	'1 723
10 to 19 employees	3	74	1 041	43 076	663	1 305	21 933	108 242	102 467	218 715	'8 192
20 to 49 employees	1	95	3 071	128 265	2 064	4 265	71 318	306 471	243 386	549 522	'12 294
50 to 99 employees	2	50	3 609	156 478	2 244	4 819	78 480	410 611	342 213	748 260	'15 818
100 to 249 employees	—	49	7 320	321 187	4 978	10 628	193 554	748 165	783 645	1 475 917	'44 492
250 to 499 employees	—	12	4 420	223 549	2 517	5 480	107 732	376 862	455 724	770 924	'26 023
500 to 999 employees	—	10	7 061	387 293	3 451	6 246	149 405	658 865	852 331	1 546 412	'66 415
1,000 to 2,499 employees	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	203	799	35 487	566	1 132	18 678	82 774	62 720	145 494	'2 954

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
333132	Oil and gas field machinery and equipment manufacturing	536	27 420	1 298 580	16 548	33 971	643 319	2 699 205	2 847 348	5 467 847	'176 156
3331321	Rotary oil and gas field drilling machinery and equipment	65	7 210	363 610	4 292	8 537	173 747	838 289	812 823	1 577 140	'57 705
3331323	Other oil and gas field drilling machinery and equipment	32	4 177	184 614	2 781	6 181	111 061	294 254	510 957	787 021	'23 542
3331325	Oil and gas field production machinery and equipment (except pumps)	101	10 380	513 161	5 836	11 968	232 616	1 048 004	1 001 479	2 079 532	'71 820
3331327	Portable drilling rigs and parts (above ground)	23	1 968	79 111	1 146	2 327	38 201	181 565	250 411	426 302	'8 444
3331329	Oil and gas field derricks and well surveying machinery	14	666	26 281	439	920	14 547	60 833	62 926	115 432	'2 601

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333132	Oil and gas field machinery and equipment manufacturing	2002.. N	X	X	4 874 519
	1997.. N		X	X	5 333 426
3331321	Rotary oil and gas field drilling machinery and equipment	2002.. N	X	X	1 388 961
	1997.. N		X	X	1 728 716
33313211	Rotary oil and gas field drilling machinery and equipment, except parts	2002.. N	X	X	1 135 564
	1997.. N		X	X	1 611 941
3331321101	Rotary drilling surface equipment for blocks, crown, traveling, draw works and accessories (including rotary tables)	thousands.. 2002.. 7	X	D	D
	1997.. 6		X	S	1 640
3331321116	Rotary oil and gas field surface drilling well control equipment (blow-out preventers, etc.)	2002.. 13	X	X	164 381
	1997.. 19		X	X	310 441
3331321123	Other rotary oil and gas field surface drilling machinery and equipment (including kelly joints)	2002.. 18	X	X	104 193
	1997.. N		X	X	N
3331321126	Rotary oil and gas field subsurface drilling bits, with working part of sintered metal carbide and cermets	thousands.. 2002.. 8	X	S	229 573
	1997.. 8		X	S	330 427
3331321131	Rotary oil and gas field subsurface drilling bits, with working part of other materials (including diamond)	thousands.. 2002.. 6	X	S	106 401
	1997.. 10		X	S	178 981
3331321136	Rotary oil and gas field subsurface drilling equipment for reamers, stabilizers, and coring equipment	2002.. 9	X	X	D
	1997.. 11		X	X	45 253
3331321151	Rotary oil and gas field subsurface drilling fishing and cutting tools	2002.. 5	X	X	139 350
	1997.. 11		X	X	116 807
3331321156	Rotary oil and gas field subsea drilling risers	thousands.. 2002.. 4	X	S	45 172
	1997.. 3		X	11.4	65 747
3331321167	Other rotary oil and gas field subsurface drilling equipment	2002.. 14	X	X	207 554
	1997.. N		X	X	N
33313212	Parts for rotary oil and gas field drilling equipment, sold separately (except for portable drilling rigs)	2002.. N	X	X	103 955
	1997.. N		X	X	59 366
3331321271	Parts for rotary oil and gas field drilling equipment, sold separately (except for portable drilling rigs)	2002.. 15	X	X	103 955
	1997.. 18		X	X	59 366
3331321Y	Rotary oil and gas field drilling machinery and equipment, nsk	2002.. N	X	X	149 442
	1997.. N		X	X	57 409
3331321YV	Rotary oil and gas field drilling machinery and equipment, nsk	2002.. N	X	X	149 442
	1997.. N		X	X	57 409
3331323	Other oil and gas field drilling machinery and equipment	2002.. N	X	X	792 352
	1997.. N		X	X	691 092
33313231	Other oil and gas field drilling machinery and equipment, except parts	2002.. N	X	X	395 012
	1997.. N		X	X	537 663
3331323111	Other oil and gas field drilling cementing equipment	2002.. 11	X	X	289 072
	1997.. 8		X	X	186 126
3331323123	Other oil and gas field drilling equipment, except rotary drilling equipment and portable drilling rigs	2002.. 12	X	X	105 940
	1997.. N		X	X	N
33313232	Parts for other oil and gas field drilling equipment, sold separately (except parts for rotary drilling equipment and portable drilling rigs)	2002.. N	X	X	356 948
	1997.. N		X	X	153 429
3331323226	Parts for other oil and gas field drilling equipment, sold separately	2002.. 22	X	X	356 948
	1997.. 12		X	X	153 429
3331323Y	Other oil and gas field drilling machinery and equipment, nsk	2002.. N	X	X	40 392
	1997.. N		X	X	—
3331323YV	Other oil and gas field drilling machinery and equipment, nsk	2002.. N	X	X	40 392
	1997.. N		X	X	—
3331325	Oil and gas field production machinery and equipment (except pumps)	2002.. N	X	X	1 840 286
	1997.. N		X	X	1 798 028
33313251	Oil and gas field production machinery and equipment (except pumps) (except parts)	2002.. N	X	X	1 621 466
	1997.. N		X	X	1 595 075
3331325101	Oil and gas field production well Christmas tree assemblies (excluding subsea)	2002.. 9	X	X	110 884
	1997.. 11		X	X	104 063
3331325106	Oil and gas field production well casings and tubing heads and supports (including subsea)	2002.. 13	X	X	169 356
	1997.. 16		X	X	126 129
3331325111	Oil and gas field production well chokes, manifolds, and other accessories, excluding subsea manifolds and templates (including subsea)	2002.. 14	X	X	134 230
	1997.. 12		X	X	75 186
3331325116	Oil and gas field production well rodless oil lifting machinery and equipment (except pumps)	2002.. 2	X	X	D
	1997.. 3		X	X	43 300
3331325121	Oil and gas field production well subsea Christmas tree assemblies, manifolds, and templates	2002.. 8	X	X	261 725
	1997.. 5		X	X	115 221
3331325126	Oil and gas field surface rod lifting pumping units and accessories (including back crank equipment)	2002.. 4	X	X	D
	1997.. 7		X	X	40 378
3331325141	Oil and gas field packers	2002.. 10	X	X	120 846
	1997.. 13		X	X	221 577
3331325146	Oil and gas field screens, tubing, catchers, etc.	2002.. 7	X	X	214 312
	1997.. 3		X	X	149 985
3331325151	Oil and gas field separating, metering, and treating equipment for use at the wellhead	2002.. 20	X	X	157 471
	1997.. 15		X	X	96 993

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333132	Oil and gas field machinery and equipment manufacturing—Con.				
3331325	Oil and gas field production machinery and equipment (except pumps)—Con.				
33313251	Oil and gas field production machinery and equipment (except pumps) (except parts)—Con.				
3331325198	Other oil and gas field production machinery and tools (except pumps)	2002.. 41	X	X	445 374
		1997.. N	X	X	N
33313252	Parts for oil and gas field production machinery and tools, sold separately (excluding parts for portable drilling rigs and other drilling equipment)	2002.. N	X	X	62 346
		1997.. N	X	X	167 135
3331325256	Parts for oil and gas field production machinery and tools, sold separately (excluding parts for portable drilling rigs and other drilling equipment)	2002.. 17	X	X	62 346
		1997.. 33	X	X	167 135
3331325Y	Oil and gas field production machinery and equipment (except pumps), nsk	2002.. N	X	X	156 474
		1997.. N	X	X	35 818
3331325YVV	Oil and gas field production machinery and equipment (except pumps), nsk	2002.. N	X	X	156 474
		1997.. N	X	X	35 818
3331327	Portable drilling rigs and parts (above ground)	2002.. N	X	X	332 206
		1997.. N	X	X	526 919
33313271	Portable drilling rigs used on the surface (above ground)	2002.. N	X	X	215 876
		1997.. N	X	X	384 661
3331327101	Portable drilling rigs used on the surface (above ground) ¹	2002.. 24	X	X	215 876
		1997.. 22	X	X	384 661
33313272	Parts for portable drilling rigs used on the surface (above ground)	2002.. N	X	X	116 258
		1997.. N	X	X	141 858
3331327210	Parts for portable drilling rigs used on the surface (above ground) ¹	2002.. 20	X	X	116 258
		1997.. 30	X	X	141 858
3331327Y	Portable drilling rigs and parts (above ground), nsk	2002.. N	X	X	72
		1997.. N	X	X	400
3331327YVV	Portable drilling rigs and parts (above ground), nsk	2002.. N	X	X	72
		1997.. N	X	X	400
3331329	Oil and gas field derricks and well surveying machinery	2002.. N	X	X	103 898
		1997.. N	X	X	243 048
33313291	Oil and gas field derricks, substructures and accessories, including well surveying machinery and equipment and well logging equipment	2002.. N	X	X	103 898
		1997.. N	X	X	226 048
3331329108	Oil and gas field derricks, substructures and accessories (regular and portable) (including equipment assembled on site), including well surveying machinery (except well logging equipment)	2002.. 9	X	X	49 947
		1997.. N	X	X	N
3331329111	Oil and gas field well logging equipment	2002.. 9	X	X	53 951
		1997.. 8	X	X	172 200
3331329Y	Oil and gas field derricks and well surveying machinery, nsk	2002.. N	X	X	—
		1997.. N	X	X	17 000
3331329YVV	Oil and gas field derricks and well surveying machinery, nsk	2002.. N	X	X	—
		1997.. N	X	X	17 000
333132W	Oil and gas field machinery and equipment manufacturing, nsk, total	2002.. N	X	X	416 816
		1997.. N	X	X	345 623
333132WY	Oil and gas field machinery and equipment manufacturing, nsk, total	2002.. N	X	X	416 816
		1997.. N	X	X	345 623
333132WYWW	Oil and gas field machinery and equipment manufacturing, nsk, for nonadministrative-record establishments	2002.. N	X	X	286 686
		1997.. N	X	X	214 818
333132WYWY	Oil and gas field machinery and equipment manufacturing, nsk, for administrative-record establishments	2002.. N	X	X	130 130
		1997.. N	X	X	130 805

¹For additional detail, see Current Industrial Report MA333F, Mining Machinery.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3331321	Rotary oil and gas field drilling machinery and equipment	
	United States..... 2002..	1 388 961
	..... 1997..	1 728 716
	California..... 2002..	6 693
	..... 1997..	N
	Oklahoma..... 2002..	33 276
	..... 1997..	34 204
	Pennsylvania..... 2002..	3 928
	..... 1997..	N
	Texas..... 2002..	1 162 352
	..... 1997..	1 458 257
3331323	Other oil and gas field drilling machinery and equipment	
	United States..... 2002..	792 352
	..... 1997..	691 092
	Texas..... 2002..	520 870
	..... 1997..	441 283
3331325	Oil and gas field production machinery and equipment (except pumps)	
	United States..... 2002..	1 840 286
	..... 1997..	1 798 028
	California..... 2002..	26 595
	..... 1997..	29 657
	Oklahoma..... 2002..	359 364
	..... 1997..	306 243
	Texas..... 2002..	1 198 434
	..... 1997..	1 175 499
3331327	Portable drilling rigs and parts (above ground)	
	United States..... 2002..	332 206
	..... 1997..	526 919
	Pennsylvania..... 2002..	35 783
	..... 1997..	37 740
	Texas..... 2002..	194 026
	..... 1997..	233 870
3331329	Oil and gas field derricks and well surveying machinery	
	United States..... 2002..	103 898
	..... 1997..	243 048
	Texas..... 2002..	80 531
	..... 1997..	208 915

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333132	Oil and gas field machinery and equipment manufacturing		
00900001	Total materials .....2002..	X	2 407 787
	.....1997..	X	2 169 789
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	50 046
	.....1997..	X	N
33291903	All other valves .....2002..	X	47 967
	.....1997..	X	72 342
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	32 138
	.....1997..	X	17 171
33391103	All other pumps .....2002..	X	2 513
	.....1997..	X	32 773
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	10 664
	.....1997..	X	6 860
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	5 493
	.....1997..	X	1 536
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	8 984
	.....1997..	X	12 331
33200056	Fabricated metal products (excluding forgings and fluid power products) .....2002..	X	195 333
	.....1997..	X	N
33210000	Forgings .....2002..	X	49 386
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	127 154
	.....1997..	X	132 874
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	3 518
	.....1997..	X	5 521
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	105 707
	.....1997..	X	225 453
33120069	Steel structural shapes (excluding castings, forgings, and fabricated metal products) .....2002..	X	41 862
	.....1997..	X	24 365
33120089	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	62 529
	.....1997..	X	48 724
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 572
	.....1997..	X	26 751
331000AA	Metal powders .....2002..	X	18 093
	.....1997..	X	31 655
33361811	Diesel and semidiesel engines .....2002..	X	14 649
	.....1997..	X	22 748
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	4 165
	.....1997..	X	1 254
33299101	Ball and roller bearings (mounted or unmounted) .....2002..	X	6 805
	.....1997..	X	8 795
32600017	Fabricated rubber products (excluding tires, tubes, hose, belting, and gaskets) .....2002..	X	18 134
	.....1997..	X	44 711
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	D
	.....1997..	X	7 885
32799903	Industrial diamonds .....2002..	X	D
	.....1997..	X	48 088
33351503	Cutting tools for machine tools .....2002..	X	10 415
	.....1997..	X	26 364
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	919 420
	.....1997..	X	868 979
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	638 218
	.....1997..	X	502 609

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.